HW#20: Rotations

Geometry

Due: Thursday, Oct 8th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP \_\_\_\_\_

Failure to show work will result in LaSalle.

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| List the three different types of transformations that were discussed in class this week and draw a picture to represent each one. | | |
| 1) | 2) | 3) |

|  |  |  |  |
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| Graph the image of the given transformation. | | | |
| Rotation of 90 degrees counterclockwise about the origin.  C:\Users\kramos\Dropbox\Math Materials - KMR\Images\reflectionsHW1a.PNG | | 5)  C:\Users\kramos\Dropbox\Math Materials - KMR\Images\rotationHW2.PNGRotation of 90 degrees clockwise about the origin. | |
| *F =* | *F’ =* | *W = Z = Y =* | *W’ = Z ‘= Y ‘=* |

FLIP 🡪

Perpendicular Lines

|  |  |
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| 6) Determine whether or not the following lines are perpendicular to *y = 2x + 10* | |
| a) y = 2x – 10  Explain your reasoning in at least 1 sentence: | b)  Explain your reasoning in at least 1 sentence: |
| c)    Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-06 at 9.29.27 PM.pngExplain your reasoning in at least 1 sentence: | |

Review: Translations and Reflections

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| 7) Translate the triangle *HTJ*  3 units down the y-axis and 5 units to the right. And draw *H’T’J’*  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-06 at 9.51.51 PM.png | 8) Reflect the triangle *DXF* over the line y = -1 and draw the image *D’X’F’*  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-06 at 9.54.22 PM.png | 9) Reflect point *R* over y = - x and draw the point *R’*.  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-06 at 9.59.08 PM.png |